

**IN THE CLAIMS:**

The following is a listing of the claims in the application as currently amended. Claims 1, 5 and 16 are cancelled. Claims 2 and 6 have been amended, as shown.

LISTING OF CLAIMS:

1. (cancelled)

2. (currently amended)     ~~The A~~ current control circuit ~~as claimed in claim~~

4, comprising:

a control current generation circuit that generates a control current in accordance with an external current control signal; and

a plurality of drive current generation circuits that generate drive currents in accordance with the control current that is generated by and supplied from said control current generation circuit, wherein the control current generation circuit comprises:

a variable current source that generates and outputs a current corresponding to the external current control signal;

a first current mirror circuit that generates a current corresponding to the current generated by said variable current source; and

a second current mirror circuit that generates a current corresponding to the current generated by said first current mirror circuit and supplies the generated current to the drive current generation circuits.

3. (original)     The current control circuit as claimed in claim 2, wherein the variable current source supplies a current to the first current mirror circuit,

the first current mirror circuit draws from the second current mirror circuit a current corresponding to the current supplied from the variable current source, and

the second current mirror circuit generates a current corresponding to the current drawn by the first current mirror circuit and supplies the generated current to the drive current generation circuits.

4. (original) The current control circuit as claimed in claim 2, wherein the variable current source draws a current from the first current mirror circuit,

the first current mirror circuit supplies to the second current mirror circuit a current corresponding to the current drawn by the variable current source, and

the second current mirror circuit draws from the drive current generation circuits a current corresponding to the current supplied from the first current mirror circuit.

5. (Cancelled)

6. (currently amended) The A motor drive circuit ~~as claimed in claim 5,~~  
comprising:

a first drive current control element that controls supply of a drive current  
to a motor;

a second drive current control element that draws the drive current from  
the motor;

a control current generation circuit that generates a control current in accordance with an external current control signal;

a first drive current generation circuit that drives said first drive current control element in accordance with the control current generated by and supplied from said control current generation circuit; and

a second drive current generation circuit that drives said second drive current control element in accordance with the control current generated by and supplied from said control current generation circuit.

wherein driving of the motor is controlled by controlling said first drive current control element and said second drive current control element which elements are controlled in accordance with the external current control signal, and

wherein the control current generation circuit comprises:

a variable current source that generates and outputs a current corresponding to the external current control signal;

a first current mirror circuit that generates a current corresponding to the current generated by said variable current source; and

a second current mirror circuit that generates a current corresponding to the current generated by said first current mirror circuit and supplies the generated current to the first drive current generation circuit and the second drive current generation circuit.

7. (original) The motor drive circuit as claimed in claim 6, wherein the variable current source supplies a current to the first current mirror circuit,

the first current mirror circuit draws from the second current mirror circuit a current corresponding to the current supplied from the variable current source, and

the second current mirror circuit generates a current corresponding to the current drawn by the first current mirror circuit and supplies the generated current to the first drive current generation circuit and the second drive current generation circuit.

8. (original) The motor drive circuit as claimed in claim 7, wherein the first drive current control element and the second drive current control element are formed by transistors of the same polarity, and

the first drive current generation circuit and the second drive current generation circuit have the same circuit configurations.

9. (original) The motor drive circuit as claimed in claim 7, wherein the motor comprises coils of a plurality of phases,

a set of the first drive current generation circuit and the second drive current generation circuit is provided for each of the coils of the phases, and

the first drive current generation circuits and the second drive current generation circuits of the phases are driven by the control current generated by the control current generation circuit.

10. (original) The motor drive circuit as claimed in claim 6, wherein the variable current source draws a current from the first current mirror circuit,

the first current mirror circuit supplies to the second current mirror circuit a current corresponding to the current drawn by the variable current source, and

the second current mirror circuit draws from the first drive current generation circuit and the second drive current generation circuit a current corresponding to the current supplied from the first current mirror circuit.

11. (original) The motor drive circuit as claimed in claim 10, wherein the first drive current control element and the second drive current control element are formed by transistors of the same polarity, and

the first drive current generation circuit and the second drive current generation circuit have the same circuit configurations.

12. (original) The motor drive circuit as claimed in claim 10, wherein the motor comprises coils of a plurality of phases,

a set of the first drive current generation circuit and the second drive current generation circuit is provided for each of the coils of the phases, and

the first drive current generation circuits and the second drive current generation circuits of the phases are driven by the control current generated by the control current generation circuit.

13. (original) The motor drive circuit as claimed in claim 6, wherein the first drive current control element and the second drive current control element are formed by transistors of the same polarity, and

the first drive current generation circuit and the second drive current generation circuit have the same circuit configurations.

14. (original) The motor drive circuit as claimed in claim 13, wherein the motor comprises coils of a plurality of phases,

a set of the first drive current generation circuit and the second drive current generation circuit is provided for each of the coils of the phases, and

the first drive current generation circuits and the second drive current generation circuits of the phases are driven by the control current generated by the control current generation circuit.

15. (original) The motor drive circuit as claimed in claim 6, wherein the motor comprises coils of a plurality of phases,

a set of the first drive current generation circuit and the second drive current generation circuit is provided for each of the coils of the phases, and

the first drive current generation circuits and the second drive current generation circuits of the phases are driven by the control current generated by the control current generation circuit.

16. (Cancelled)